



**IEEE
ComSoc™**
IEEE Communications Society
Rio de Janeiro Chapter

**RCCC 2016
MEDELLIN, COLOMBIA**

Rio de Janeiro ComSoc Chapter



Rio 2016





OUTLINE

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Chapter team

- Waldo Russo, Chapter Chair
- Fabio Alencar, Vice Chair & Treasurer
- Raul Colcher, Membership Development





Membership Evolution and Main activities in 2015/16

- **80+ members in 2015/16, aim to reach 90+ in YE 2017;**
- **Technical Activities:**
- **Dr. Marco Aurelio Cárdenas Juárez, Universidad Autónoma de San Luis Potosí (UASLP) - Facultad de Ciencias – Mexico**
Theme: R&D on Cognitive Radio at UASLP – October 1015
- **Dr. Ekram Hossain, DLT, Department of Electrical and Computer Engineering at University of Manitoba, Winnipeg, Canada**
Theme: 5G Cellular: Key Enabling Technologies and Research Challenges – November 2015
- **Participation on the 2º Seminar on Spectrum Management, organized by ANATEL, with the presentation “Interference of terrestrial mobile systems on satellite communications systems” on September 2015.**



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- **DLT Sonia Aiassa, Institut National de la Recherche Scientifique- Énergie, Matériaux et Télécommunications (INRS-EMT) Université du Québec, had committed for the lecture Energy Harvesting Communications Networks on 2016 October 10th, but canceled a few weeks before.**
- **Dr. Fernando José da Silva Moreira, Federal University of Minas Gerais (UFMG) – October 2016**
Theme : "Meshless Method on the Solution of Electromagnetic Problems"
- **Communications systems for IoT- Introduction and Debate Planned for November 21st – Debate with industrial and academic experts involved with the technology, aiming to IoT characterize IoT technologies, network architectures, standards, and regulation and necessity of dedicated low power LAN/WAN**
Organized by Dr Carlos Rodriguez Ron (CETUC, PUC-RJ) and Waldo Russo, Chairman, RJ IEEE COMSOC Chapter.



Chapter Relationships

- Develop close ties with local and regional chapters (CAS, CIS, PES, SPS, APS, EDS, MTT-S, etc.) aiming to share DLTs on close related subjects.
- Colaboration with othert societies like SSPI (Society of Satellite Professionals International) and SCTE (Society of Cable Telecommunications Engineer) on organization of common theme seminars and mini-courses.



Connections with Local Universities and Telecom Companies in Rio

- Invitation of recognized Professors and Researchers visiting the Universities for local conferences or other activities, to give a lecture for our members.
- Benefit from connections and facilities for lectures and activities organized by the RJ Chapter:
 - Pontifícia Universidade Católica do Rio de Janeiro (PUC-RJ)
 - Universidade Federal do Rio de Janeiro (UFRJ)
 - Universidade do Estado do Rio de Janeiro (UERJ)



Plans for 2017

- **One (ideally 2) DLT Presentation , preferable after February and before mid November;**
- **Technical meetings with invited experts among chapter members or universities/research centers**
- **Survey among members showed some preferred themes:**
 - **Advanced wireless communications for Industry 4.0 and IoT applications;**
 - **Next Generation wireless (5G, cognitive systems)**
 - **Software Defined Networks and Network Functions**
 - **Virtulialization impact on telecommunications engineering**
 - **Evolution of Optical technologies (e.g., NextGen ROADM systems, IP over DWDM, etc.)**
 - **Nanoscale communications**



Plans for 2017 (cont.)

- **Technical meetings in conjunction with other organizations:**
 - **Already in negotiations with SSPI Brazil for a joint event on the theme “*Revision of the key technologies and applications of future satellite 2.0 communications systems*”**
- **Explore common activities among local and regional IEEE/COMSOC groups, with events of case studies, discussion of future local developments, etc.**
- **New members campaign, exploiting contacts in Universities AND Corporative Sector**